

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: May 23, 2001, 14:18:15 ; Search time 18.6 Seconds
(without alignments)
1625.704 Million cell updates/sec

Title: US-08-883-036a-2

Perfect score: 2327
Sequence: 1 MEDRGQNAFASARKRHP.....HLISGKFWYLEGNSAMS 440

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 198801 seqs, 68722935 residues

Total number of hits satisfying chosen parameters: 198801

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	243	10.4	461	2 JCA302	tumor necrosis fac
2	218	9.4	454	1 GCMST1	tumor necrosis fac
3	215	9.2	455	1 GCHUT1	tumor necrosis fac
4	209	9.0	435	2 I54182	tumor necrosis fac
5	199.5	8.6	314	2 I37383	FAS soluble protei
6	197	8.5	335	2 A40036	apoptosis-mediatin
7	179.5	7.7	327	2 A46484	apoptosis-mediatin
8	173.5	7.5	461	1 GCHUT1	tumor necrosis fac
9	172	7.4	461	1 A35356	tumor necrosis fac
10	167.5	7.2	459	2 I48854	gene murine tumour
11	166	7.1	427	1 GCHUN	nerve growth facto
12	163.5	7.0	474	2 B38634	tumor necrosis fac
13	161.5	6.9	416	1 JN0006	tumor necrosis fac
14	155	6.9	425	1 A25431	nerve growth facto
15	148.5	6.4	324	2 JCA395	Fas antigen precu
16	144	6.2	348	2 T28623	hypothetical prote
17	142	6.1	272	2 I48700	gene ox40 protein
18	141	6.1	349	2 D36858	gene G4R protein -
19	140	6.0	349	2 D72175	G2R protein - vari
20	139.5	6.0	595	2 A42086	CD30 antigen precu
21	137	5.9	271	2 S12783	CD40 antigen precu
22	136.5	5.9	277	2 A60771	B-cell activation
23	132	5.7	557	2 A48434	variant-specific s
24	131.5	5.7	577	2 A60501	thrombomodulin pre
25	129.5	5.6	277	2 I37552	OX40 homolog - hum
26	128	5.5	326	1 GOVZML	T2 protein myxom
27	128	5.5	2824	2 T22759	hypothetical prote
28	126	5.4	256	2 B33393	T-cell antigen 4-1
29	124.5	5.4	521	2 A29345	steroid hormone re

30	124.5	5.4	932	2 A42632	cell adhesion mole
31	123	5.3	493	2 JCA486	membrane glycoprot
32	122.5	5.3	1372	2 T25933	hypothetical prote
33	119	5.1	1036	2 T17405	scavenger receptor
34	118.5	5.1	305	2 A46476	B cell-associated
35	118.5	5.1	356	2 A25918	thrombomodulin - b
36	116.5	5.0	575	1 THHUB	thrombomodulin pre
37	116	5.0	984	1 A34076	protein-tyrosine k
38	113	4.9	325	2 B43692	T2 protein - rabbi
39	113	4.9	1810	1 A32230	tenascin precursor
40	112	4.8	1436	2 A46496	antigen WCL.1 prec
41	111.5	4.8	667	2 A48579	tirophozoite surfac
42	110.5	4.7	655	1 A46688	hepatocyte growth
43	110.5	4.7	1548	2 S34583	serine proteinase
44	110	4.7	250	1 A49053	CD37 antigen precu
45	109.5	4.7	1766	2 A42125	tirophozoite cystel

ALIGNMENTS

RESULT 1

JCA302
tumor necrosis factor receptor p55 precursor - pig
C:Species: Sus scrofa domestica (domestic pig)
C:Date: 29-Nov-1995 #sequence_revision 08-Feb-1996 #text_change 23-Jul-1999
C:Accession: JCA302; PC4093
R:Stuter, B.; Pauli, U.
Gene 163, 263-266, 1995
A:Title: Cloning of the cDNA encoding the porcine p55 tumor necrosis factor receptor.
A:Reference number: JCA302; MUID:96011645
A:Accession: JCA302
A:Molecule type: mRNA.
A:Residues: 1-461 <SUT>
A:Cross-References: GB:U19994; NID:91141752; PIDN:AMC48499.1; PID:91141753
A:Accession: PC4093
A:Molecule type: protein
A:Residues: 1-7 <SUT>
A:Experimental source: kidney cell line 15
C:Genetics:
A:Gene: tufr
C:Superfamily: tumor necrosis factor receptor type 1; NGF receptor repeat homology
C:Keywords: glycoprotein; kidney; receptor; transmembrane protein; tumor
F:1-29/Domain: signal sequence #status predicted <SIG>
F:30-461/Product: tumor necrosis factor receptor p55 #status predicted <MAT>
F:44-194/Domain: extracellular cysteine rich #status predicted <EXT>
F:44-82/Domain: NGF receptor repeat homology <NGF>
F:84-126/Domain: NGF receptor repeat homology <NGF>
F:211-231/Domain: transmembrane #status predicted <TM>
F:361-447/Domain: signal transduction #status predicted <SIT>
F:54,145,151/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 10.4%; Score 243; DB 2; Length 461;

Best Local Similarity 24.6%; Pred. No. 7.5e-10;

Matches 119; Conservative 61; Mismatches 185; Indels 118; Gaps 26;

QY	30	PGPRVKTIVLVAAVLLV----	SAESALITQDDLAPOQRAAPQOKRSSPSE-----	GIC 81
DB	7	PLGLLP-----LVRLALVVYVPGVGLVLPDRKRRLCPQGYVSHPNRSICITWC 62		
QY	82	PGHNHSED-----GRDCISCKYGDYSTHWNDLFCRCRCD--	GEVELSPCTTTR 133	
DB	63	HKGTIYHNDCLRGDITDCRECDNG--TFTASENHILQCLSCSKREMSQVEISPTVTR 121		
QY	134	NTVQCCEGTFREDSPEM--CRKRTGCPRGVAVYGDCTPMSD-----	175	
DB	122	DFVCGCRKQNYRWSETLFOCLNCSL--CPNGVQL--PLEKODTICNCHSGFLRDKC 179		
QY	176	IECVH--KESGTHSGAPAVEETVTSPTGTPASPCSLSIITIGVYAAVLLVAVPVCS 234		
DB	180	VSCVNCNKADCKNL--CPATSETRNDPDTGTVLLPLVYIFGLCLAFLLV--GLACRY 235		

QY 235 LMKKVLPLYKIGSGG-----GDEPRVRS-----SCRPGAEADVINEIV 276
 Db 236 ORWK-----PKLYSTICGKSTPVKEGEPLTAFSGPITTFSPILSPSPPTTSSPVPSFS 292
 QY 277 SLIOPQVPE--EDEMVOGEAF-----PTGVNMLSP-----GSEHLLER 314
 Db 293 PISSPFTPDGWSNIVTSPKRIAPPPOGAPILPMPAPSTVPVPPPLPKWGSASHS 352
 QY 315 AEARSQRRLILVANECDPTETLROCFDADLVDPDSNEPLMRKLGIMDNEI-KVAKA 373
 Db 353 APAQLA-----DADPA-ILYAVVDG-----VPTTRKKEVVRKLGSEHEIERLELO 397
 QY 374 EAAGHRDLYTMLIKVKNKTG-RDASVH-----TLDALETGERL--AKOKIED 420
 Db 398 NGRCLEADQSMLEWRRTSRREATLELLGSLVRMDLLGLEDIEALRGPARLAPAP 457
 QY 421 HLL 423
 Db 458 HLL 460

RESULT 2

GOMST1

tumor necrosis factor receptor 1 precursor - mouse
 M:Alternate names: tumor necrosis factor receptor, 55K
 C:Species: Mus musculus (house mouse)
 C>Date: 30-Jun-1992 #sequence, revision 30-Jun-1992 #text, change 01-Dec-2000
 C/Accession: A38634; EMBL:519021; S19021; I54532; I57826
 R:Lewis, M.; Tartaglia, L.A.; Lee, A.; Bennett, G.L.; Rice, G.C.; Wong, G.H.W.; Chen, E.
 Proc. Natl. Acad. Sci. U.S.A. 88, 2830-2834, 1991
 A>Title: Cloning and expression of cDNAs for two distinct murine tumor necrosis factor
 A:Reference number: A38634; MUID:91187885
 A:Accession: A38634
 A:Molecule type: mRNA
 A:Residues: 1-454 <LEW>
 A:Cross-references: GB:M60468; NID:9199825; PIDN:AAA39751.1; PID:9199826
 R:Goodwin, R.G.; Anderson, D.; Jerzy, R.; Brannan, C.I.; Copeland, N.G.; Jenk
 Mol. Cell. Biol. 11, 3020-3026, 1991
 A>Title: Molecular cloning and expression of the type 1 and type 2 murine receptors for
 A:Reference number: A40254; MUID:91246168
 A:Accession: A40254
 A:Molecule type: mRNA
 A:Residues: 1-454 <GO2>
 A:Cross-references: GB:M60468; NID:9199825; PIDN:AAA39751.1; PID:9199826
 R:Barrett, K.; Taylor-Fishwick, D.A.; Cope, A.P.; Kissmerghis, A.M.; Gray, P.W.; Feldma
 Eur. J. Immunol. 21, 1649-1656, 1991
 A>Title: Cloning, expression and cross-linking analysis of the murine p55 tumor necrosis
 A:Reference number: S16677; MUID:91285014
 A:Accession: S16677
 A:Molecule type: mRNA
 A:Residues: 1-454 <BAR>
 A:Cross-references: EMBL:X59238; NID:953578; PIDN:CAA41922.1; PID:953579
 R:Roche, J.G.; Brockhaus, M.; Gentz, R.; Lesslauer, W.
 Immunogenetics 34, 338-340, 1991
 A>Title: Molecular cloning and expression of the mouse Tnf receptor type b.
 A:Reference number: S19021; MUID:92039815
 A:Accession: S19021
 A:Molecule type: mRNA
 A:Residues: 1-454 <ROT>
 A:Cross-references: EMBL:X57796; NID:954848; PIDN:CAA40936.1; PID:954849
 R:Bebo, B.P.
 Immunogenetics 39, 450-451, 1994
 A>Title: Nucleotide sequence of the TNF type I receptor from a mouse endothelioma cell
 A:Reference number: I54532; MUID:94245292
 A:Accession: I54532
 A>Status: translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-454 <RES>
 A:Cross-references: GB:I26349; NID:9430732; PIDN:AAA59361.1; PID:9430733
 R:Roche, J.G.; Bluetmann, H.; Gentz, R.; Lesslauer, W.; Stelmetz, M.
 Mol. Immunol. 30, 165-176, 1993
 A>Title: Genomic organization and promoter function of the murine tumor necrosis factor
 A:Reference number: I57826; MUID:93156721

A:Accession: I57826
 A>Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 1-393, 'G', 395-454 <RE2>
 A:Cross-references: GB:M76656; NID:9202100; PIDN:AAA40465.1; PID:9202102
 C:Comment: This protein is one of two distantly related receptors for both TNF-alpha
 C:Genetics:
 A:Gene: TNFR-2
 A:Introns: 13/3; 65/1; 108/1; 184/2; 210/1; 248/1; 257/3; 353/1
 C:Superfamily: tumor necrosis factor receptor type 1; NGF receptor repeat homology
 C:Keywords: cytokine receptor; duplication; glycoprotein; receptor; transmembrane pro
 F:1-29/Domain: signal sequence #status predicted <SIG>
 F:30-454/Product: tumor necrosis factor receptor type 1 #status predicted <MAT>
 F:30-212/Domain: extracellular #status predicted <EXT>
 F:44-82/Domain: NGF receptor repeat homology <NG1>
 F:84-126/Domain: NGF receptor repeat homology <NG2>
 F:127-167/Domain: NGF receptor repeat homology <NG3>
 F:168-204/Domain: NGF receptor repeat homology <NG4>
 F:213-235/Domain: transmembrane #status predicted <MEM>
 F:236-454/Domain: intracellular #status predicted <INT>
 F:54,151,202/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 9.4%; Score 218; DB 1; Length 454;
 Best Local Similarity 22.2%; Pred. No. 4.4e-08;
 Matches 109; Conservative 51; Mismatches 163; Indels 168; Gaps 22;

QY 32 PVPRTVIVYVAVALIVASALITOODLAPQQAARQKRSSEGLCPRGHHI----- 87
 Db 4 PVPGLLLSLVLLALLGIMHGV--TGIVPS--LGDREKRS--LCPQGXVSHSN 54
 QY 88 -----SEGRD--CISCKYGQDYTHNMDDLFCILCTRC--DSGEVE 125
 Db 55 NSICCTCKHKGIVLVSDCPSPORDIVVCEKEKG--FTASQVYILQCLSKCKREMSQVE 113
 QY 126 LSPCTTTRNVYQCEGTFREDSPEM-----CRKCRTG-----CPRG-M 164
 Db 114 ISPCQADKDTYCGCKENQFORLYSETHFCVDCSPCFNGVTYIPCKEQTQNVCHNGFE 173
 QY 165 VAVGCTQWSDIECVKHSKSGTKHSEARAVEVYTSSTGTPASCSLSGIIIGTVAAV 224
 Db 174 LRESEVPCS--HCKKNECKMKLCIPPLAVNTNPQDSGTAV---LPLVILLGLCLS 227
 QY 225 LIVAFVCKSLMKVLLPYLKIGSGGGDEPRVDRSSQPGAEADVINEIVSLIOTPOV 284
 Db 228 FTFLIMCRIRYRW-----RP-----EYSLICDRPV 253
 QY 285 PEQMEVOEPAPR-----TGVN--MLSPGESE-----HLLERA 315
 Db 254 PVKEEKAKGRLTPAPSPAPSPFTSGFNPTLGFSTPGFSSPVASTPISPIFGPSNMHMPRV 313
 QY 316 EAERSQRRLILVANECD-----PTETLROCFDADLVDPDSNEPLMRKLGIMDNEI 348
 Db 314 SE-----VPTPOGADPLLYESLCSVAPTSVQKWDSDNHPRPDNADLAIYAVVDG 365
 QY 349 VPFDSWEPLMRKLGIMDNEI-KVAKAEAGHRDLYTMLIKVKNKTGRDASVHTLDALE 407
 Db 366 VPPARWKKEFMFGSLSEHIERLEIMONGRCLEADQYSLMEWRRTTRPHE-----DTLE 419
 QY 408 TLGERLAKOKI 418
 Db 420 VVGGLVSKMNL 430

RESULT 3

GOMHT1
 tumor necrosis factor receptor 1 precursor [validated] - human
 N:Alternate names: p55 tumor necrosis factor receptor; TNF receptor type 1
 C:Contains: tumor necrosis factor alpha inhibitor; tumor necrosis factor binding prot
 C:Species: Homo sapiens (hmn)
 C>Date: 30-Jun-1992 #sequence, revision 30-Jun-1992 #text, change 08-Dec-2000
 C/Accession: A38208; A34899; A34900; A36555; A38281; S12057; JT0758; A60231;
 R:Fuchs, P.; Strehl, S.; Dworzak, M.; Hummler, A.; Ambros, P.F.

Genomics 13, 219-224, 1992
 A:Title: Structure of the human TNF receptor 1 (p60) gene (TNFR1) and localization to ch
 A:Reference number: A38208; MUID:92250049
 A:Accession: A38208
 A:Molecule type: DNA
 A:Residues: 1-455 <FUC>
 A:Cross-references: GB:M75864; GB:M75865; GB:M75866; NID:9339748; PIDN:AAA61201.1; PID:9
 R:Loetscher, H.; Pan, Y.C.E.; Lahn, H.W.; Gentz, R.; Brockhaus, M.; Tabuchi, H.; Lesslauer
 Cell 61, 361-370, 1990
 A:Title: Molecular cloning and expression of the human 55 kd tumor necrosis factor recep
 A:Reference number: A34899; MUID:90235284
 A:Accession: A34899
 A:Molecule type: mRNA
 A:Residues: 1-455 <LOE>
 A:Cross-references: GB:M58286; GB:M33480; NID:9339753; PIDN:AAA36753.1; PID:9339754
 A:Experimental source: Placenta
 A:Note: part of this sequence, including the amino end of the mature protein, confirmed
 R:Schall, T.J.; Lewis, M.; Koller, K.J.; Lee, A.; Rice, G.C.; Wong, G.H.W.; Gatanaga, T.
 Cell 61, 361-370, 1990
 A:Title: Molecular cloning and expression of a receptor for human tumor necrosis factor.
 A:Reference number: A34900; MUID:90235285
 A:Accession: A34900
 A:Molecule type: mRNA
 A:Residues: 1-455 <SCH>
 A:Cross-references: GB:M33294; NID:9339744; PIDN:AAA03210.1; PID:9339745
 R:Himmeler, A.; Maurer-Fogy, I.; Kroenke, M.; Scheurich, P.; Pfefferkorn, K.; Lant, M.;
 DNA Cell Biol. 9, 705-715, 1990
 A:Title: Molecular cloning and expression of human and rat tumor necrosis factor recept
 A:Reference number: A36555; MUID:91090841
 A:Accession: A36555
 A:Molecule type: mRNA
 A:Residues: 1-455 <HIM>
 A:Cross-references: GB:M63121; NID:9339755; PIDN:AAA36754.1; PID:9339756
 A:Accession: C36555
 A:Molecule type: protein
 A:Residues: 30-38;41-53,'X',55-79,'XX',82-94,'NK','XX',100-104;107-128;162-167,'X',169-2
 A:Note: the purified protein, called tumor necrosis factor binding protein, is a soluble
 R:Gray, P.W.; Barrett, K.; Chantry, D.; Turner, M.; Feldmann, M.
 Proc. Natl. Acad. Sci. U.S.A. 87, 7380-7384, 1990
 A:Title: Cloning of human tumor necrosis factor (TNF) receptor cDNA and expression of re
 A:Reference number: A38281; MUID:91017509
 A:Accession: A38281
 A:Molecule type: mRNA
 A:Residues: 1-455 <GRA>
 A:Cross-references: GB:M37764
 A:Note: the authors translated the codon TGG for residue 371 as Thr, AAG for residue 372
 R:Nophar, Y.; Kemper, O.; Brakelbusch, C.; Engelmann, H.; Zwang, R.; Aderka, D.; Holtman
 EMBO J. 9, 3269-3278, 1990
 A:Title: Soluble forms of tumor necrosis factor receptors (TNF-Rs). The cDNA for the TNF
 le form of the receptor.
 A:Reference number: S12057; MUID:91006021
 A:Accession: S12057
 A:Molecule type: mRNA
 A:Residues: 1-455 <NOP>
 A:Cross-references: EMBL:X55313; NID:937223; PIDN:CAA39021.1; PID:937224
 A:Note: parts of soluble TNF binding protein 1, including its amino and carboxyl ends, w
 R:Kemper, O.; Wallach, D.
 Gene 134, 209-216, 1993
 A:Title: Cloning and partial characterization of the promoter for the human p55 tumor ne
 A:Reference number: J70758; MUID:94085779
 A:Accession: J70758
 A:Molecule type: DNA
 A:Residues: 1-13 <KEM>
 R:Secklinger, P.; Vey, E.; Turcatti, G.; Wingfield, P.; Dayet, J.M.
 Eur. J. Immunol. 20, 1167-1174, 1990
 A:Title: Tumor necrosis factor inhibitor: purification, NH-2-terminal amino acid sequenc
 A:Reference number: A60231; MUID:90292116
 A:Accession: A60231
 A:Molecule type: protein
 A:Residues: 41-43,'X',45-53,'X',55-57 <SEC>
 R:Gatanaga, T.; Hwang, C.; Kohr, W.; Cappuccini, F.; Lucet III, J.A.; Jeffes, E.W.B.; Le
 Proc. Natl. Acad. Sci. U.S.A. 87, 8781-8784, 1990
 A:Title: Purification and characterization of an inhibitor (soluble tumor necrosis facto

tients.
 A:Reference number: A38258; MUID:91062364
 A:Accession: A38258
 A:Molecule type: protein
 A:Residues: 41-60 <GAT>
 A:Experimental source: cancer patient serum
 R:Olsson, I.; Lant, M.; Nilsson, E.; Peetre, C.; Thysell, H.; Grubb, A.; Adolf, G.
 Eur. J. Hematol. 42, 270-275, 1989
 A:Title: Isolation and characterization of a tumor necrosis factor binding protein fr
 A:Reference number: A60594; MUID:89111356
 A:Accession: A60594
 A:Molecule type: protein
 A:Residues: 41-43,'X',45-53,'V',55-57,'XX',60 <OLS>
 R:Engelmann, H.; Novick, D.; Wallach, D.
 J. Biol. Chem. 265, 1531-1536, 1990
 A:Title: Two tumor necrosis factor-binding proteins purified from human urine. Eviden
 A:Reference number: A35010; MUID:90110215
 A:Accession: A35010
 A:Molecule type: protein
 A:Residues: 41-45 <ENG>
 A:Experimental source: normal urine
 R:Kajihara, J.; Asada, A.; Kihara, S.; Kato, K.
 Biosci. Biotechnol. Biochem. 58, 2266-2268, 1994
 A:Title: Amino acid sequence of natural tumor necrosis factor alpha inhibitor purified
 A:Reference number: J02404; MUID:95128033
 A:Accession: J02404
 A:Molecule type: protein
 A:Residues: 41-53,'X',55-144,'X',146-150,'X',152-186,'X',188-201 <KAJ>
 A:Experimental source: urine
 C:Comment: This protein is one of two known receptors for both TNF-alpha (cachectin)
 C:Genetics:
 A:Gene: GDB:TNFR1
 A:Cross-references: GDB:125913; OMIM:191190
 A:Map position: 12p13.2-12p13.2
 A:Initons: 13/3; 65/1; 108/1; 158/1; 184/2; 209/1; 247/1; 256/3; 353/1
 C:Superfamily: tumor necrosis factor receptor type 1; NGF receptor repeat homology
 C:Keywords: duplication; glycoprotein; receptor; transmembrane protein
 F:1-21/Domain: signal sequence #status predicted <Sig>
 F:22-45/Domain: tumor necrosis factor receptor 1 #status predicted <Mat>
 F:30-211/Domain: extracellular #status predicted <Ext>
 F:41-201/Product: TNF binding protein 1 (tumor necrosis factor alpha inhibitor) #stat
 F:44-82/Domain: NGF receptor repeat homology <NG1>
 F:84-126/Domain: NGF receptor repeat homology <NG2>
 F:127-167/Domain: NGF receptor repeat homology <NG3>
 F:168-196/Domain: NGF receptor repeat homology <NG4>
 F:212-234/Domain: transmembrane #status predicted <MEM>
 F:235-455/Domain: intracellular #status predicted <INT>
 F:54,145,151/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 9.2% Score 215; DB 1; Length 455;
 Best Local Similarity 23.0%; Pred. No. 7.2e-08;
 Matches 109; Conservative 62; Mismatches 172; Indels 130; Gaps 22;

Qy	34	VPTLTVLVAAVLLVSAESALITQDLPQRAAPQQRKSSPEGLCPGHNISEDGR	92
Db	6	VPDLRLPLVLELLVGVPSGVI---GLVP--HNGDEKSDS---VCPGKVIHPQNS	56
Qy	93	-----DCISCKYGGDYSTHWMDLLFCLRTKRC--DSGEVELS	127
Db	57	ICCTKCHKGTLYLNDPCPGQDDTCRECESG-SPTASENLRLHCLSCSKCKKEGQVEIS	115
Qy	128	PCGTTTRNTVOCCEGCTFREDSPEM--CRGCRGCPRGVKKVGDCTPWSIDECVHKRSG-	184
Db	116	SCVYDRFTVCGCKNQRHRYWSENLFCQFNCSL-CLNGTV-----HLSCEKQNTV	165
Qy	185	-TKHSGAPAVEETVSSPGTPASPC-----SLSGIIGVTVAAVLLVAVFVC-K	233
Db	166	CTGACGFLFLENCEVSSNCKSLCTKTKLDPQENKVGIEDSTVLLPLVIFFGCLL	225
Qy	234	SLV-----WKVLPYKIGICSGGGDPER--VDRSSQRPACEDVNLVEIYSILO	280
Db			

Db 226 SLLEFGLMYRYQRWKSLLYSI--VC--GKSTPEKEGELEGGTTTKPLAPNPSFSP-----T 276
 QY 281 PTQVPEQMEVOEPAEPPLGVNMLSPGSEHLEPEAEARSRRLLYLPANG----- 332
 Db 277 PGFTPTLGFVSVPSTSTSSSTYTPGCPNPAE-----RREVAAPVPGADPILATA 328
 QY 333 ---DPTETLRQCFDDFA-----DLVPEDSWPLMRKIGLIMNEI-KV 370
 Db 329 LASDPIPNPLOKWEDESAHKPOSLDTPATLYAVENVPLRKKEFVRRLGLSHEIDRL 388
 QY 371 AKAEAAHROTLYMLIKWVNT-----GRDASVHTLDALETGERTL 413
 Db 389 ELONGRCLEAOYSMLATWRRRTPREATELLELGRVLRDMDLGCTDIEAL 441

RESULT 4

154182
 Tumor necrosis factor receptor 2-related protein - human
 C:Species: Homo sapiens (man)
 C:Date: 24-May-1996 #sequence_revision 24-May-1996 #text_change 17-Mar-2000
 C:Accession: 154182
 R:Baens, M.; Chetani, M.; Cassiman, J.J.; Van den Berghe, H.; Marynen, P.
 Genomics 16, 214-218, 1993
 A:Title: Construction and evaluation of a hncDNA library of human 12p transcribed sequen
 A:Reference number: 154182; MUID:93252381
 A:Accession: 154182
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-435 <RES>
 A:Cross-references: GB:L04270; NID:9339761; PIDN:AAA36757.1; PID:9339762
 C:Genetics:
 A:Gene: GDB:LTBR
 A:Cross-references: GDB:1230195; OMIM:600979
 A:Map position: 12p13.3-12p13.1
 C:Superfamily: tumor necrosis factor receptor type 1; NGF receptor repeat homology

Query Match 9.0%; Score 209; DB 2; Length 435;
 Best Local Similarity 24.5%; Pred. No. 1.8e-07;
 Matches 91; Conservative 39; Mismatches 129; Indels 112; Gaps 18;

QY 20 PGRERARGPRGRPVKTLYVVAANVLLYSASALITQODLAPQORAPQOKRSSPSE- 78
 Db 4 PWATSAFGLAMGP-----LVIGLGLLAA-----SOPQAVPPYASRNOJCRODEKEY 50
 QY 79 -----GLCPRGHISEDG---RD--CISCKYGQDYSTHMDLFLCRLCTRCDC--SG 122
 Db 51 YEPQHICSRCPPTGYVSAKCSRIKDYCAICA--ENSTNEHNNTLTQCLCPDCDPVWG 109
 QY 123 EVELSPCTTTRNTVCCCEGTREDESPMKCRKCRGTGCPRGWVYKVDCTPMSDIE----- 177
 Db 110 LEELIAPCTSKRRTQCCQPGMFCAMALE-CTHCEL-----LSDCPPGEAELEKDEV 160
 QY 178 -----CVKESGTRKSGAPAV-----EETVTSPTGTPAS-----PCS 210
 Db 161 GGNHNVCHYCKAGHPONSSPSARCOPTHRCENOGILVEAPTAOSDTCCKNPLELPPE 220
 QY 211 LSGIITGVV---AAVLIYAVFYCKSLMK-----KVLPYIKGLCSGGGDPERVD 259
 Db 221 MGTMLMLAVLLPLAFLLLATVFS---IMKSHPSLCKKLSLKRROGGGPRPV- 274
 QY 260 RSSQORGADNVLNELVSLQPTQ-----VPEQMEVOEPAEPITGV 300
 Db 275 AGSWEPKRAHYPEDLYOPLRISGDSVSPSTGLPAAPVLEAGVPOQ-----OSPDLITRE 330
 QY 301 NMLSPGESEHL 311
 Db 331 PDLERGESQV 341

RESULT 5
 137383
 FAS soluble protein - human

C:Species: Homo sapiens (man)
 C:Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 21-Jul-2000
 C:Accession: 137383
 R:Gaschino, I.; Ficuci, G.; Papoff, G.; Ruberti, G.
 J. Immunol. 154, 2706-2713, 1995
 A:Title: Three functional soluble forms of the human apoptosis-inducing Fas molecule
 A:Reference number: 137383; MUID:95181785
 A:Accession: 137383
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-314 <RES>
 A:Cross-references: EMBL:247993; NID:9728578; PIDN:CAA8031.1; PID:9695539

Query Match 8.6%; Score 199.5; DB 2; Length 314;
 Best Local Similarity 27.7%; Pred. No. 5.9e-07;
 Matches 74; Conservative 36; Mismatches 96; Indels 61; Gaps 13;

QY 38 LVLVVAVLL-----VSAESALITQODLAPQORAPQOKRSSPSEGL-----CPP 83
 Db 8 LPLVLTVARLSKSYNAOYDINSKGL--ELRKYTVTETONLEGLHHDGFCRKP 65
 QY 84 GHH-----ISEDRDCISCKYGQDYSTHMDLFLCRLCTRCDSG---EVELSPCTTTRN 134
 Db 66 GERKARDCTVNGDEPDPCVQCGKEVTDKAHSSCRRCRLDEHGLEVEIN-CTRTON 124
 QY 135 TVCCCEGTFRDEDESPMKCRKCRGTGCPRGWVYKVDCTPMSDIECVH-----KESGTRK 187
 Db 125 TKCRCKPNFCNSYCEHDDPC-TRCEHGIIR--BCTILSNTKCEYKREVKOTCRKH 181
 QY 188 SEAPAVEETVTSPTGTPA---SPCSLGIITGVVAANVLLVAVFYCKSLMKRVLLPYL 244
 Db 182 RENGSHSPLENTAINTSDVLSKYL--TTIAGV-----TLSQV 224
 QY 245 KCICSGGGDPERVDSSORPGAEDNV 271
 Db 225 KGFVRKNGVNEAKIDEIK-----NDNV 246

RESULT 6

A40036
 Apoptosis-mediating surface antigen Fas precursor - human
 N:Alternate names: surface antigen APO-1
 C:Species: Homo sapiens (man)
 C:Date: 17-Jan-1992 #sequence_revision 17-Jan-1992 #text_change 21-Jul-2000
 C:Accession: A40036; S24543; A38142
 R:Ittoh, N.; Yonehara, S.; Ishii, A.; Yonehara, M.; Mizushima, S.I.; Sameshima, M.; Ha
 Cell 66, 233-243, 1991
 A:Title: The polypeptide encoded by the cDNA for human cell surface antigen Fas can m
 A:Reference number: A40036; MUID:91309137
 A:Accession: A40036
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-335 <ITD>
 A:Cross-references: GB:M67454; NID:9182409; PIDN:AAA63174.1; PID:9182410
 R:Krammer, P.H.
 submitted to the EMBL Data Library, February 1992
 A:Reference number: S24543
 A:Accession: S24543
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-335 <KRA>
 A:Cross-references: EMBL:X63717; NID:928741; PID:928742
 R:Oehm, A.; Behrmann, I.; Falk, W.; Pawlita, M.; Maier, G.; Klas, C.; Li-Weber, M.; R
 J. Biol. Chem. 267, 10709-10715, 1992
 A:Title: Purification and molecular cloning of the APO-1 cell surface antigen, a memb
 A:Reference number: A38142; MUID:92268122
 A:Accession: A38142
 A:Status: preliminary; not compared with conceptual translation
 A:Molecule type: nucleic acid
 A:Residues: 1-134, 'Q', 136-335 <OEH>
 A:Experimental source: SKW6.4 cells
 A:Note: Sequence extracted from NCBI backbone (NCBI:103810)

Db 361 HLAGELGYPERHIDSFTHACPVK-----ALIASWA--TQDSATLIDLALAL-----RRIGR 410
 QY 416 QKIEDHLLS 424
 Db 411 ADLVESLCS 419

RESULT 12

B38634
 tumor necrosis factor receptor type 2 precursor - mouse
 C:Species: Mus musculus (house mouse)
 C:Date: 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 23-Jul-1999
 C:Accession: B38634; A40254; S54816
 R:Lewis, M.; Tartaglia, L.A.; Lee, A.; Bennett, G.L.; Rice, G.C.; Wong, G.H.W.; Chen, E.
 Proc. Natl. Acad. Sci. U.S.A. 88, 2830-2834, 1991
 A>Title: Cloning and expression of cDNAs for two distinct murine tumor necrosis factor I
 A:Reference number: A38634; MUID:9118785
 A:Accession: B38634
 A:Molecule type: mRNA
 A:Residues: 1-474 <LEM>
 A:Cross-references: GB:M60469; NID:g199827; PIDN:AAA39752.1; PID:g199828
 R:Goodwin, R.G.; Anderson, D.; Jerzy, R.; Daviss, T.; Brannan, C.I.; Copeland, N.G.; Jenk
 Mol. Cell. Biol. 11, 3020-3026, 1991
 A>Title: Molecular cloning and expression of the type 1 and type 2 murine receptors for
 A:Reference number: A40254; MUID:91246168
 A:Accession: A40254
 A:Molecule type: mRNA
 A:Residues: 1-474 <GOO>
 A:Cross-references: GB:M60469; NID:g199827; PIDN:AAA39752.1; PID:g199828
 R:Kissomergis, M.; Fellows, R.; Feldmann, M.; Chernajovsky, Y.
 submitted to the EMBL Data Library, May 1995
 A:Description: Characterization of the promoter region of the murine p75-TNF receptor.
 A:Reference number: S54816
 A:Accession: S54816
 A>Status: preliminary
 A:Molecule type: DNA
 A:Residues: 1-22 <KIS>
 A:Cross-references: EMBL:X87128; NID:g809043; PIDN:CAA60618.1; PID:g809044
 C:Superfamily: tumor necrosis factor receptor type 2; NGF receptor repeat homology
 C:Keywords: cytokine receptor; transmembrane protein
 F:1-22/Domain: signal sequence #status predicted <SIG>
 F:23-474/Product: tumor necrosis factor receptor type 2 #status predicted <MAT>
 F:40-77/Domain: NGF receptor repeat homology <NG1>
 F:79-120/Domain: NGF receptor repeat homology <NG2>
 F:166-203/Domain: NGF receptor repeat homology <NG4>

Query Match 7.0%; Score 163.5; DB 2; Length 474;
 Best Local Similarity 21.7%; Pred. No. 0.00034;
 Matches 70; Conservative 31; Mismatches 127; Indels 95; Gaps 13;
 QY 81 CPGHGHISE-----DGRICISCKYGDYSTHNDLLFCLRC--TRDSCGEVELSPCTTRN 134
 Db 58 CPGGYVHNFCKNTSDTVACDEASM-YTQVWNOFRTLSSSSCTTQOVELRACTKQON 116
 QY 135 TVCOEEETFE-----KEEDSPKMC-----RCRTG-----CPRGWYKVGDCPW----- 173
 Db 117 RVACGEARVYCALKTHSSCKRCMLSKGCPFGVASSRANGVLCACACGFTSDTTS 176
 QY 174 -----SDIECVKESGTEK-----SGEAPAVEETVTSPT 204
 Db 177 STDVCRPHRICSLIAPGNASPDVCA--PEPTLSAIPRTLYVSQPEPTRSQPLDQEGP 235
 QY 205 PASPSCSL-----GIITGVAAVVLIVAVFCKSLMKVLPYL 244
 Db 236 SQPTSLTSLASTPIIEOSTKGISLPIGLIVGVY--SLGLMLGLVNCIIIVORK----- 289
 QY 245 KGICGGGGDEPVRDSSORPGAEDNVNLNETVSLQF---TQVPEQNEVQEPAPETGVN 301
 Db 290 -----KKSCLORDAKVHVHPDEKSODAVGLEQHLHTTAPSSSSSSSSSASAGDR 341
 QY 302 MSLPGESEHLLPEAEERSORRR 324

Db 342 RAPCGHQRARMAAAGQGEAR 364

RESULT 13

JN0006
 nerve growth factor receptor, low affinity precursor - chicken
 N:Alternate names: NGF receptor
 C:Species: Gallus gallus (chicken)
 C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
 C:Accession: JN0006; A60504
 R:Larje, T.H.; Weiskamp, G.; Helder, J.C.; Radeke, M.J.; Misko, T.P.; Shooter, E.M.; R
 Neuron 2, 1123-1134, 1989
 A>Title: Structure and developmental expression of the nerve growth factor receptor I
 A:Reference number: JN0006; MUID:90166579
 A:Accession: JN0006
 A:Molecule type: mRNA
 A:Residues: 1-416 <LAR>
 A:Experimental source: embryonic chick brain
 R:Heuer, J.G.; Faramie-Nainie, S.; Wheeler, E.F.; Bothwell, M.
 Dev. Biol. 137, 287-304, 1990
 A>Title: Structure and developmental expression of the chicken NGF receptor.
 A:Reference number: A60504; MUID:90152140
 A:Accession: A60504
 A>Status: preliminary; not compared with conceptual translation
 A:Molecule type: mRNA
 A:Residues: 21-35, 'Y', 37-172, 'K', 174-275, 'S', 277-395, 'R', 397-416 <HEU>
 C:Comment: This receptor is found on sensory and sympathetic neurons, on neuroblastom
 C:Comment: The cysteine-rich region of the extracellular domain may form part or all
 C:Comment: This protein is thought to form a high-affinity receptor when it associate
 C:Superfamily: nerve growth factor receptor; NGF receptor repeat homology
 C:Keywords: duplication; glycoprotein; heterodimer; monomer; phosphoprotein; receptor
 F:1-20/Domain: signal sequence #status predicted <SIG>
 F:21-416/Product: nerve growth factor receptor #status predicted <MAT>
 F:21-239/Domain: extracellular #status predicted <EXT>
 F:24-57/Domain: NGF receptor repeat homology <NG1>
 F:59-100/Domain: NGF receptor repeat homology <NG2>
 F:101-139/Domain: NGF receptor repeat homology <NG3>
 F:141-181/Domain: NGF receptor repeat homology <NG4>
 F:189-237/Region: serine/threonine-rich
 F:240-261/Domain: transmembrane #status predicted <MEM>
 F:262-416/Domain: intracellular #status predicted <INT>
 F:52/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 6.9%; Score 161.5; DB 1; Length 416;
 Best Local Similarity 22.8%; Pred. No. 0.0004;
 Matches 91; Conservative 46; Mismatches 160; Indels 103; Gaps 20;
 QY 81 CPE-----GHH-----ISEDRICISCKYGDYSTHNDLL--FCLRCRDSGEVELS 127
 Db 75 CKPCGCGGLHSMNAPCVESDPAVC-KCAVY-----YFDELSSCKECSCEVGFPLMF 128
 QY 128 PCTTNTVTC-QCEEGTFREE--DSPEMCRKRTGCPRGWYKVGDCPTWSDIEC--VHES 183
 Db 129 PCPDSQDVCCECEGTFSDANFVDPCLPC-TICEENEVWVKCETASDAECHRDLPR- 186
 QY 184 GTHKS-----GEAPAVEETVTSPTGPSPSCS-----LSGIITG 217
 Db 187 WTHTPSLAGSDSEPTITRDPFNTGMAATLADIVITVMSSQPVRSRGTAADNLIYPCS 246
 QY 218 VTVAAYVLIIVFVCKSLMKVLPYLKIGICGGGGDEPVRDSSORPGAEDNVNLNETV 277
 Db 247 ILAAVVGGLVAYIAFKR--WNS-----CKONKOGANNRP-----VNQTPSEGEKLSDSG 295
 QY 278 ILQPTQVPEQMEVQEPAPETGVNMLSPGESEHLLPEAEERSORRLVLPANEGPTET 337
 Db 296 I-----SVDSQSLHDQOPNOSTGAPARKGDSIVASLPKQKEVEKLSASAE----- 345
 QY 338 LRQCFDDFADLVPPDSWEPMLKRLGLMDNETKYAKAKAAGHRTDLYTMLIKWYNNKGRDA 397
 Db 346 -----ETWROLAGELGKEDLIDCFTRRESPAR-----ALLADM-----SA 381

QY 398 SVHTLDALETGERLAKOKIEDHLLSGKEMYLEGNADS 437
DB 382 KETATIDALVALRKIORGDIASL-----YSESTATS 414

RESULT 14

A26431
nerve growth factor receptor precursor, low affinity - rat

N:Alternate names: NGF receptor

C:Species: Rattus norvegicus (Norway rat)

C>Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999

C:Accession: A26431; PH1229

R:Radeke, M.J.; Misto, T.P.; Hsu, C.; Herzenberg, L.A.; Shooter, E.M.

Nature 355, 593-597, 1987

A:Title: Gene transfer and molecular cloning of the rat nerve growth factor receptor.

A:Reference number: A26431; MUID:87115859

A:Accession: A26431

A:Molecule type: mRNA

A:Residues: 1-425 <RAD>

A:Cross-references: GB:X05137; NID:956755; PIDN:CAA28783.1; PID:956756

R:Metz, M.; Timmusk, T.; Allikmets, R.; Saarma, M.; Persson, H.

Gene 121, 247-254, 1992

A:Title: Regulatory elements and transcriptional regulation by testosterone and retinoid

A:Reference number: PH1229; MUID:93077038

A:Accession: PH1229

A:Molecule type: DNA

A:Residues: 1-20 <MET>

A:Cross-references: GB:X61269

C:Comment: This receptor is found on sensory and sympathetic neurons, on neuroblastoma

C:Comment: The cysteine-rich region of the extracellular domain may form part or all of

C:Comment: This protein is thought to form a high-affinity receptor when it associates w

C:Genetics:

A:Introns: 20/3

C:Superfamily: nerve growth factor receptor; NGF receptor repeat homology

C:Keywords: duplication; glycoprotein; heterodimer; monomer; phosphoprotein; receptor;

F:1-23/Domain: signal sequence #status predicted <SIG>

F:30-425/Product: nerve growth factor receptor #status predicted <MAT>

F:30-251/Domain: extracellular #status predicted <EXT>

F:33-66/Domain: NGF receptor repeat homology <NG1>

F:68-109/Domain: NGF receptor repeat homology <NG2>

F:110-148/Domain: NGF receptor repeat homology <NG3>

F:150-190/Domain: NGF receptor repeat homology <NG4>

F:198-243/Region: serine/threonine-rich

F:252-273/Domain: transmembrane #status predicted <MEM>

F:274-425/Domain: intracellular #status predicted <INT>

F:61/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 6.7%; Score 155; DB 1; Length 425;

Best Local Similarity 23.2%; Pred. No. 0.0012;

Matches 89; Conservative 45; Mismatches 161; Indels 88; Gaps 17;

QY 71 QKRSSSEGLCPRHHSIDGRICISCKYG--QDYTHNDLFLCRTRCDSGEVELSP 128

DB 94 QSNAP-----C-----VEADDAVC-RCAGGYODEETG-----HCACSVCEVSGSLVTS 138

QY 129 CTTTRATVC-OCEEGFREE-DSPEWCRKCRTPCGPRGNKVGDCPTWMSIDECVHKESGTR 186

DB 133 CQDKQATVCEECPEEGYSBANHVDPCLPC-IYCEDETEQOLRECTPMADAC--EETPRR 195

QY 187 HSGEAPAVEETVTSPTGPASPCSLGIIIGTVAAVLIIVAVFCKSLMKVLPYLKG 246

DB 196 WIPRSTPPGSDSTASTOPEVPRPDOLVPTVADMVTTVM----- 237

QY 247 ICSGGGDEPRDRSSQRCAGEENVNLNLSIQTQVP-----EQEMEVQEPAE 296

DB 238 -----GSSQPVYTR-----GTDNLLIPVCSILAAVVGIVAVIAKRNSCKONKOGAN 287

QY 297 PTGVNMLSPGESEHL-----LEPAEARSORRLLVANEGDPT-----ETLRQC 341

DB 288 SRVNVNCTPPPEGKSLSDSGISVDSQSLNDQCHTHTOTASQALKGQGNLXSLPLTKR-- 345

QY 342 FDFEADLVPPDSWEPLMRKLGIMDNIEIKVAKAAGHRDTLYTMLIKWVKTGRDASVHT 401

DB 346 -EEVEKRLNGDWTMRHLAGELGYQPEHIDSETHACFVR-----ALLASW-----GAQDSA 394
QY 402 LDPALETGERLAKOKIEDHLLS 424
DB 395 TLDALLAALRKIORADIVESLCS 417

RESULT 15

JC2395

Fas antigen precursor - rat

C:Species: Rattus norvegicus (Norway rat)

C>Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 05-Nov-1999

C:Accession: JC2395; PC2246

R:Kimura, K.; Wakatsuki, T.; Yamamoto, M.

Biochem. Biophys. Res. Commun. 198, 666-674, 1994

A:Title: A variant mRNA species encoding a truncated form of Fas antigen in the rat 1

A:Reference number: JC2395; MUID:94128114

A:Accession: JC2395

A:Molecule type: mRNA

A:Residues: 1-324 <KIM>

A:Cross-references: DDBJ:D26113; NID:9468486; PIDN:BA05108.1; PID:di1005650; PID:9468

A:Experimental source: thymus

A:Accession: PC2246

A:Molecule type: mRNA

A:Residues: 1-62, 'RFT' <KI2>

A:Cross-references: DDBJ:D26113; NID:9468488; PIDN:BA05109.1; PID:di1005651; PID:9468

A:Experimental source: liver

C:Genetics:

A:Introns: 62/1

C:Superfamily: NGF receptor repeat homology

C:Keywords: transmembrane protein

F:1-21/Domain: signal sequence #status predicted <SIG>

F:22-324/Product: Fas antigen #status predicted <MAT>

F:44-79/Domain: NGF receptor repeat homology <NGF>

F:81-124/Domain: NGF receptor repeat homology <NG4>

F:171-188/Domain: transmembrane #status predicted <TMM>

Query Match 6.4%; Score 148.5; DB 2; Length 324;

Best Local Similarity 25.5%; Pred. No. 0.0025;

Matches 67; Conservative 33; Mismatches 84; Indels 79; Gaps 14;

QY 39 VLVAAVLLVSAESALITQODLAPQOAAPOQKRS-----SPSEGL-----CP 82

DB 1 MLMIMAVLPLVLAGPELVNRMQGTDSIFEGLELKRVRFTDNNCSGLYQVGFCCQPCQ 60

QY 83 PGHHSID-----GRDCISCKYGQDYS--THMNDLFLCRTRCDSG---EVELSPCTT 131

DB 61 PGERKVKDCDTTSGGAPTCCHPCTEGEERTDRKHYSDK--CRRCACFCEGHLVEETN-CTR 117

QY 133 TTRNTVQCEGTFREDSDPEWCRKCRTPCGPRGNKVGDCPTWMSIDECVHKESGTRHSGE 190

DB 118 TQNTKCRCKENFCNALSCHDCHYC-TSC--GLEDLLEPCTRTSNKCKKQSSNKK----- 170

QY 191 APAVEETVTSPTGPASPCSLGIIIGTVAAVLIIVAVFCKSLMKVLPYLKIGTCSG 250

DB 171 -----LIMLLILPGLALTFVFIYTKR--YRKRQP----- 196

QY 251 GGGDEPRVDRSSQRCAGEENVNLNLSIQTQVP-----EQEMEVQEPAE 296

DB 197 --GDPE-----SGIPSPESVPMN 212

Search completed: May 23, 2001, 14:19:46
Job time: 91 sec

